

IN THE CLAIMS

1. (currently amended) A service providing system, including, at least, a plurality of electronic appliances, a service server, a communication network, and an authentication server being connected to the communication network,

each electronic appliance being equipped with a wireless communication terminal function, being mounted in a moving body, and being assigned a unique device ID, and

the service server having a function for providing a predetermined service and storing said unique device ID for each electronic appliance to which service can be provided,

the service providing system comprising;

authentication process means for allowing a communication terminal apparatus to access a respective electronic appliance only when the communication terminal apparatus has been authenticated;

registration means for registering said unique device ID assigned to said each electronic appliance, and

transmission means for using said unique device ID to provide access, via the communication network, from the service server to a specified electronic appliance to which a specified service needs to be provided and transmitting service information, which has a predetermined content for realizing the specified service, to the specified electronic appliance,

in which the communication terminal apparatus and the service server can access the electronic appliance only through the authentication server, and

in which the respective electronic appliance is operable to obtain navigation information regarding a current position of the respective moving body and in which the service server is operable to provide content data which recommends that a user obtain updated information corresponding to the current

position in response to the navigation information.

2. (currently amended) A service providing system, including, at least, a plurality of electronic appliances, a service server, a communication network, and an authentication server being connected to the communication network,

each electronic appliance being equipped with a wireless communication terminal function, being mounted in a moving body, and being assigned a unique device ID, and

the service server having a function for providing a predetermined service and storing said unique device ID for said each electronic appliance to which services can be provided,

the service providing system comprising:

authentication process means for allowing a communication terminal apparatus to access a respective electronic appliance only when the communication terminal apparatus has been authenticated:

registration means for registering said unique device ID assigned to each electronic appliance;

first transmission means for providing access, via said communication network, from one of said electronic appliances to said service server and transmitting information which has a predetermined content that can be used by a specified service from said one of said electronic appliances to said service server; and

second transmission means for using said unique device ID to provide access, via said communication network, from said service server to a specified electronic appliance to which a specified service needs to be provided and transmitting service information, which has a predetermined content for realizing the specified service, to the specified electronic appliance only through the authentication server,

in which the communication terminal apparatus and the

service server can access the electronic appliance only through the authentication server, and

in which the respective electronic appliance is operable to obtain navigation information regarding a current position of the respective moving body and in which the service server is operable to provide content data which recommends that a user obtain updated information corresponding to the current position in response to the navigation information.

3. (canceled)

4. (canceled)

5. (currently amended) A service providing system, composed of an electronic appliance, a communication network, a communication terminal apparatus, and an authentication server,

the electronic appliance being one of an electronic appliance that is mounted in a moving body and is equipped with a mobile communication terminal function and a mobile communication terminal apparatus with a fixed access path to the communication network, and the authentication server being connected to said communication network,

the service providing system comprising:

access means that enables the communication terminal apparatus to access the electronic appliance via the communication network using a device ID stored in a service server that has been assigned uniquely to the electronic appliance, the communication terminal apparatus accessing the electronic appliance only through the authentication server;

terminal ID generating means, provided on said communication network, for generating a terminal ID for said communication terminal apparatus using information that identifies said fixed access path by which said communication

terminal apparatus accesses said communication network;

registration means for registering said device ID assigned to the electronic appliance;

authentication process means, provided in said authentication server, for using said terminal ID to perform an authentication process for said communication terminal apparatus that has accessed the authentication server and allowing said communication terminal apparatus to access said electronic appliance only when the communication terminal apparatus has been authenticated; and

transmission/reception means for receiving and transmitting service information, which has a predetermined content for realizing a specified service, between said communication terminal apparatus that has been authenticated by said authentication process means and said electronic appliance,

in which the service server can access the electronic appliance only through the authentication server, and

in which the electronic appliance is operable to obtain navigation information regarding a current position of the moving body and in which the service server is operable to provide content data which recommends that a user obtain updated information corresponding to the current position in response to the navigation information.

6. (canceled)

7. (canceled)

8. (canceled)

9. (currently amended) A communication apparatus for controlling communication between a plurality of electronic appliances, each electronic appliance being connected to a

network, being provided with a unique device ID for identifying the electronic appliance, and being capable of transmission,

the communication apparatus comprising:

communication means for communicating with another communication apparatus via said network;

storage means for storing group information in which the plurality of electronic appliances, which are permitted to communicate between themselves after the communication is authenticated, are registered as a group;

authentication process means for allowing a device to access an electronic appliance only when the respective device has been authenticated;

registration means for registering a unique device ID assigned to each electronic appliance;

a service server operable to provide service information to one or more of the electronic appliances;

judgement means for judging, based on said unique device IDs transmitted via the network before communication commences between said plurality of electronic appliances and group information stored in said storage means, whether the communication is permitted; and

control means for having said communication means transmit a result of said judgement means to an exchange apparatus that is connected to said network and performs an exchange process for communication between electronic appliances based on the transmitted unique device IDs,

in which the respective device and the service server can access the respective electronic appliance or appliances only through an authentication server, and

in which the respective electronic appliance is mountable in a moving vehicle and is operable to obtain navigation information regarding a current position of the moving vehicle and in which the service server is operable to

provide data which recommends that a user obtain updated information corresponding to the current position in response to the navigation information.

10. (previously presented) The communication apparatus according to Claim 9,

wherein a wireless communication is performed between said electronic appliances and the exchange apparatus.

11. (previously presented) The communication apparatus according to Claim 10,

wherein said electronic appliances are navigation apparatuses.

12. (currently amended) The communication apparatus according to Claim 10,

wherein one or more of said electronic appliances are mobile telephones.

13. (previously presented) The communication apparatus according to Claim 9,

wherein each of said electronic appliances is connected to said communication means in said exchange apparatus, and

when communicating, each of said electronic appliances transmits said unique device ID to said communication apparatus, said exchange apparatus transmits a communication means ID for specifying said communication means to said communication apparatus,

said communication apparatus authenticates said electronic appliance based on said group information, by referring to a combination of said transmitted unique device ID and said transmitted communication means ID.

14. (previously presented) The communication apparatus according to Claim 11,

wherein the group information is generated when an electronic appliance communicates with the communication apparatus via the network.

15. (previously presented) The communication apparatus according to Claim 9,

wherein the group information also includes content data that can be used by the electronic appliances which are registered in the group information.

16. (previously presented) The communication apparatus according to Claim 15,

wherein the content data is geographical data.

17. (currently amended) A service providing system operable within the Internet, said system comprising:

a navigation unit mountable in a vehicle and operable to provide navigational and positional information of the vehicle to an operator of the vehicle, said navigation unit being assigned a unique identification ID;

a service server operable to provide a predetermined service and to store said unique ID for said navigation unit to which service can be provided;

a communication network connectable to the Internet;

an authentication server operable to determine if access to the navigation unit is permissible; and

a communication terminal apparatus connectable to the navigation unit and the communication network and operable to enable information to be supplied to the navigation unit from the Internet by way of the communication network and to enable service information to be supplied to the navigation unit by use of said unique ID from the service server by way of the Internet and the communication network,

in which the communication terminal apparatus and the service server can access the navigation unit only through the authentication server, and

in which the navigation unit is operable to obtain the navigation information regarding a current position of the vehicle and in which the service server is operable to provide content data which recommends that the operator obtain updated information corresponding to the current position in response to the navigation information.